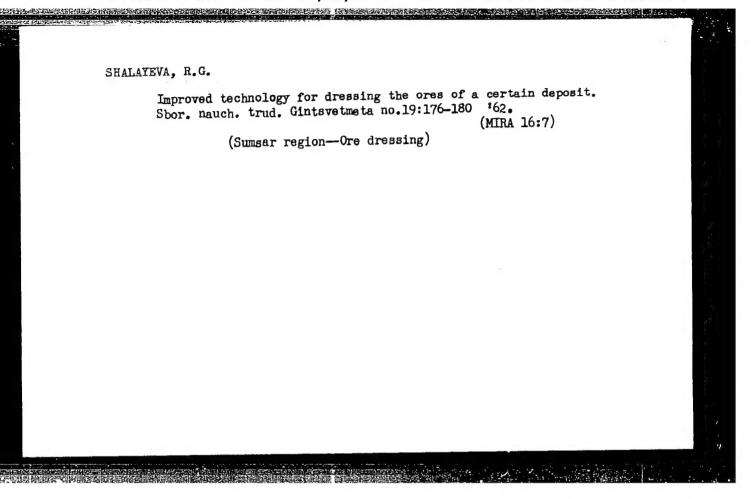
BONDAR', A.D.; YEMLYANINOV, A.S.; KLYUCHAREV, A.P.; LISHENKO, L.G.; MEDYANIK, V.N.; NIKOLAYCHUK, A.D.; SHALAYEVA, O.Ye.

Making metal films of isotopes. Prib. i tekh. eksp. no.3:134-136 My-Je '60. (MIRA 14:10)

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FILIFIOV, A.P., otv.red., DEDUSENKO, Yu.M., red.; NAGORNAYA, N.K., red.; BULGAKOV, V.N., red.; SYTNIK, N.K., red.; SHALAYEVA, S.A., mlad. red.

[Operating processes in turbomachines and the stability of their elements] Rabochie protsessy v turbomashinakh i prochnost ikh elementov. Kiev, Naukova dumka, 1965. 172 p.

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FOGURETSRAYA, L.N., red.; SHALAYEVA, S.A., ml. red.

[Electrical networks for the conversion of measurement data] Elektricheskie tsepi dlia preobrazovaniia izmerital'noi informatsii. Kiev, 1965. 137 p.

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1. Akademiya nauk URSR, Kiev.

SYTNIK, N.K., red.; SHALAYEVA, S.A., ml. red.

[Theory and elements of a system for sampling geophysical information] Teoriia i elementy sistem otbora geofizicheskoi informatsii. Kiev, Akad. nauk URSR, 1965. 163 p. (MIRA 19:1)

1. Akademiya nauk UhSR, Kiev.

FLEROVA, Ye.A.; STAVROVSKIY, A.Ye.; SHALAYEVA, V.F.; YELAGIN, V.D., redaktor; PROFERANSOVA, N.V., redaktor; VOLKOV, A.P., tekhnicheskiy redaktor

[Experience in teaching biology; a collection of articles] Opyt prepodavaniia biologii; sbornik statei. Pod red. E.A.Flerovoi. A.E.Stavrovskogo i V.F.Shalaeva. Moskva, 1956. 254 p. (MLRA 9:10)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov obucheniya

(Biology--Study and teaching)

BIBIKOV, Yuriy Konstantinovich; MALYSHKIN, Viktor Fedoseyevich; SHALAYEVA,
Yekaterina Ivanovna; KOPYLOVA, L.P., red.; KIRSANOVA, N.A., teknn.
red.

[Trade unions in Petrograd before the Great October Socialist
Revolution, 1907-1917; pages from the history of the trade union
movement in the U.S.S.R.] Profizing Petrograda do Velikoi Oktiabriskoi sotsialisticheskoi revoliutsii (1907-1917 gody); iz istorii
profisiuznogo dvizheniia v SSSR. [Moskva] Izd-vo VTsSPS, 1957. 128 p.

(Ieningrad--Trade unions) (MIRA 11:2)

SHALAYEVA, Z. (Stantaiya Alatyr', Chuvashekaya ASSR).

Motion pictures in "Red Corners." Kinomekhanik no.9:13 S '53. (MLRA 6:9)
(Moving-picture plays)

ATC NR: AT6036123 (N) SOURCE CODE: UR/3116/66/279/000/0121/0122

AUTHOR: Vlasova, Ye. N.; Shalayeva, Z. K.

ORG: none

TITLE: Alphanumeric information output from a Ural-2 computer

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. Trudy, v. 279, 1966. Chislennyye metody analiza i predvychisleniya gidrometeorologicheskikh poley v Arktike (Numerical methods of analyzing and computing hydrometeorological fields in the Arctic), 121-122

TOPIC TAGS: Computer, computer application, computer program / Ural 2

ABSTRACT: An alphanumeric printer and output from a Ural-2 computer, developed in the Computer Laboratory of the Arctic and Antarctic Institute, are discussed. In the Ural-2, control of wide-carriage printing is accomplished using the standard subprogram discussed in the article; a program for paper drive is also presented. Some of the printer's shortcomings are discussed, and it is stated that the print-out speed is six to seven times less than that of the Ural-2's conventional printer. Despite the problems mentioned in the article, the alpha-

Card 1/2

ACC NR: AT6036193

SOURCE CODE: UR/3116/66/277/000/0165/0167

AUTHOR: Vlasova, Ye. N.; Shalayeva, Z. K.

ORG: none

TITLE: Organization of the Ural-2 computer control register

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledo-vatel'skiy institut. Trudy, v. 277, 1966. Chislennyye metody issledovaniya gidrometeorologicheskikh usloviy v Arktike s ispol'zovaniyem elektronnykh tsifrovykh vychislitel'nykh mashin. (Numerical methods of studying hydrometeorological conditions in the Arctic with the use of electronic digital computers), 165-167.

TOPIC TAGS: computer component, computer design, rue many con, digital computer / What - 1 computer

ABSTRACT: A control register which permits any core memory location to be interrogated without stopping the computation process was designed at the Arctic and Antarctic Scientific Research Institute Computer Laboratory. This design is useful when programs have to be debugged on the Ural-2 computer, as this operation involves manipulation of specific memory cell contents without interrupting the machine operation. The block diagrams showing the Ural-2 modules and interconnection

Card 1/2

SHALAYEVSKIY, Mikhail Grigor yevich, podpolkovnik; RDSSAL, N.A.,
polkovnik, red.; SOKOLOVA, G.F., tekhn.red.

[Gasoline-engine driven saws] Benzinomotornye pily. Moskva,
Voen.lzd-vo M-va oborony SSSR, 1961, 85 p.

(Saws)

(MIRA 14:12)

SHALAYEVSKIY, Mikhail Grigor'yevich, polkovnik; MASHEVSKIY, V.F., podpolkovnik, red.; MURASHOVA, L.A., tekhn. red.

[Mobile log-frame saws] Peredvizhnye lesopil'nye ramy.
Moskva, Voenizdat, 1964. 141 p. (MIRA 17:2)

# CIA-RDP86-00513R0

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| T. 1303.66 EVT(m)/EVE(t)/ETT IJP(c) JD SOURCE CODE: UR/0089/66/021/002/0083/0084  AUTHOR: Zvara, I.; Chuburkov, Yu. T.; Tsaletka, R.; Zvarova, T. S.; Shalayevskiy,  N. R.; Shilov, B. V.  ORG: none  TITLE: Chemical properties of the element 104 N/  SOURCE: Atomnaya energiya, v. 21, no. 2, 1966, 83-84  TOPIC TAGS: transuranium element, chemical property, nuclear reaction, fission product, isotope separation  ABSTRACT: Chemical identification of the new hafnium and new element chlorides. Comparative study of the curium, californium, when the study of the curium, californium of the authors applied their of the III Bats comparative study 0/40 isotope N/9, 1964). The authors applied their of the Elements of the curium, californium of the curium of the elements of the long transiture of maxture of gaseous chlorides of tons in a Y-300 earlier developed, of a rapid, continuous separation of the elements of the elements of the long transiture for Nuclear Research. Radioactive isotopes produced by nuclear reactions. A PuO, target was bombarded with Ne <sup>22</sup> tons in the soctopes produced by a mixture of Nuclear Research. Radioactive isotopes produced by nuclear reactions. The curium, californium, and scandium isotopes of the curium the chamber of the cyclotron. The curium, californium, and scandium in the chamber of the cyclotron. The curium californium and never in the chamber of the cyclotron of the curium californium and never in the chamber of the cyclotron. The curium californium and never in the chamber of the cyclotron. The curium californium and never in the chamber of the cyclotron. |
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ACC NR: AP6029794

Zr, llf and  $104^{260}$  isotopes were transported in a stream of nitrogen to a fission event detector. The presence of the  $104^{260}$  isotope was recorded by the detector in the gaseous stream transporting the IV B group element chlorides. A total of 12 atoms of the  $104^{260}$  isotope was recorded during a series of experiments. Recurrence intervals of all 12 spontaneous fission events confirmed the earlier established half-life of the new element  $(0.3 \pm 0.1 \text{ sec})$ . Thus, confirmation was obtained of the earlier advanced hypothesis of a sharp difference in the chemical property between the 104 element and transuranium elements which were discovered in the past few years. The atomic number of the new element was determined and the element 104 was shown to be close to hafnium, hence to belong to the IV b group of the Periodic Table of the Elements. Thanks are expressed to G. N. Flerov, Corresponding Member of the Academy of Sciences SSSR.

SUB CODE: 07/ SUBM DATE: 18May66/ ORIG REF: 004/ OTH REF: 001 ATO Press 5065

Card 2/2

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16(1)

Shalayevskiy, 0. V. AUTHOR:

SOV/43-59-7-5/17

TITLE:

On the Stability for the Theorem of D.A. Raykov (Ob ustoychivosti

dlya teoremy D.A.Raykova)

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1959, Nr 7(2), pp 41-49 (USSR)

ABSTRACT:

The distribution function

$$\prod(\frac{x-\alpha}{6};\lambda), \quad 6>0, \quad \alpha \leq 0, \quad \lambda>0,$$

where

$$\Pi(x;\lambda) = \begin{cases} 0 & \text{for } x \leq 0 \\ \sum_{m=0}^{n} e^{-\lambda} \frac{\lambda^{m}}{m!} & \text{for } x > 0 \text{ and } n \geq 0, \text{ integral, } n < x \leq n+1, \end{cases}$$

is denoted as a Poisson law.

Theorem: Let the distribution function F(x) of the sum  $X = X_1 + X_2$ 

of two independent random variables  $\mathbf{X}_1$  and  $\mathbf{X}_2$  satisfy the

 $|F(x) - \prod (x; \lambda) < \varepsilon$ ,  $-\infty < x < \infty$ , where  $\xi < 1$  and  $\lambda$  are given positive numbers. Let  $F_i(x)$  be

Card 1/2

On the Stability for the Theorem of D.A.Raykov

SOV/43-59-7-5/17

distribution functions of the  $X_i$ , i = 1,2; let a be the upper

bound of those y for which 
$$P(X_1 < y) \le \sqrt{\varepsilon}$$
 and  $\lambda_1 = \int_0^{N+1} x dF_1(x+a), \lambda_2 = \int_0^{N+1} x dF_2(x-a), \frac{1}{\varepsilon} = N^N.$ 

Then for a sufficiently small E and for an arbitrary  $\omega < \frac{1}{2}$  there

hold the inequations  $|F_1(x) - \prod (x-a; \lambda_1)| < (\lambda + \frac{1}{\lambda}) (\ln \frac{1}{\epsilon})^{-\omega}$  $|F_2(x) - \prod (x+a; \lambda_2)| < (\lambda + \frac{1}{\lambda}) (\ln \frac{1}{E})^{-\omega}$ 

From the theorem there follows a result proved by D.A.Raykov Ref 3\_7. The author mentions the papers of N.A.Sapogov. There are 4 references, 3 of which are Soviet, and 1 French.

SUBMITTED: March 26, 1957

Card 2/2

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679.8 207/20-130-1-9/6)

AUTHOR: TITLE:

Shalayevakay, 0.V.

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Some Remarks on the Levelling of Observations With Unknown

Weights

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 1, pp 37-40 (USSR)

ABSTRACT:

Let the unknown but uniquely defined parameters  $\xi_1,\ldots,\xi_m$  be

combined with the measured term  $\lambda$  by the relation  $\lambda = \kappa_0 + a_1 \xi_1 + \cdots + a_m \xi_m$ , where  $a_0, a_1, \dots, a_m$  a priori are given constants. The author investigates coefidence estimations

of given linear functions of the parameters  $\{1, \cdots, \xi_m\}$ . The assumptions usual for the treatment of the levelling problem are made. But it is not demanded that the amaginesses of the measurements or there ratios are known. The estimations are obtained by a combination of the method of Wald / Ref 2 / and the construction of the confidence ellipsoids due to Yu.V. Linnik [Ref 3]. Four theorems and two lemmas are formulated.

Cara 1/2

Some Remarks on the Levelling of Observations With Unknown Weights

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The author thanks A.N.Kolmogorov for advices. There are 7 references, 2 of which are Soviet, 1 German, 2 American, and 2 English.

AGSCCTATION: Leningradskiy gosudarstvennyy universitet izeni A.A. Zhdanova (Leningrad State University imeni A.A. Zhdanova)

FRESENTED: July 3, 1959, by A.N.Kolmogorov, Academican

QUEMITTHE: July 3, 1959

Card 2/2

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MITROPOL'SKIY, Aristarkh Konstantinovich; SHALAYEVSKIY, O.V., red.; RO-ZENGAUZ, N.M., red.; LUK'YANOV, A.A., tokhn. red.

[Technique of statistical calculations] Tekhnika statisticheskikh vychislenii. Moskva, Gos.izd-vo fiziko-matem. lit-ry, 1961. 479 p. (MIRA 14:6)

(Mathematical statistics)

EWT(d)/FCC(w)/BDS L 12995-63 IJP(C) AFFTC ACCESSION NR: AP3000288 S/0020/63/150/001/0026/0027 AUTHOR: Linnik, Yu. V. (Corresponding Member, AN SSSR); Shalayevskiy, THILE: Analytic theory of tests for the Behrens-Fisher problem SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 26-27 TOPIC TAGS: Behrens-Fisher problem ABSTRACT: Let  $g(\xi, \eta)$  be a test such that for any semi-circle K  $0 \le n < \infty$  with center at the origin, then either vrai max  $g(\xi, \eta) < \text{vrai max } g(\xi, \eta)$ , or vrai min g ( $\xi$ ,  $\eta$ ) > vrai min g ( $\xi$ ,  $\eta$ ). K al more committee and Using analytic continuation, it is shown that  $g(\xi,\eta)$  cannot exist. Author also states (without proof) conditions on the critical zone under which a similar test fails to exist. Orig. art. has: 2 formulas. ASSOCIATION: Leningradskoye otdeleniye Matematicheskogo instituta im. V. A. Steklova Akademii nauk SSSR (Leningrad Division of the Mathematics Inst., Academy of Sciences, SSSR

SHALAYEVSKIY, 0.V.

Testing the fundamental hypotheses in multivariate analysis.

Vest. LGU 18 no.13:150-152 '63. (MIRA 16:9)

(Mathematical statistics)

ABADZHI, K.I.; BOYTSOV, A.N.; VOLOSEVICH, F.P.; GOBERMAN, P.N.;

KEMPINSKIY, M.M.; KUTAY, A.K.; HARINSKIY, F.I.; ODING,

G.A.; TAYTS, B.A.; RUBINOV, A.D.; SHTYURMER, G.A.;

BRZHEZINSKIY, M.L., kand. tekhn. nauk, retsenzent;

SHALAYEVSKIY, O.V., red.; LEYKINA, T.L., red.izd-va;

SPERANSKAYA, O.V., tekhn. red.

[Handbook on production control in the machinery industry]
Spravochnik po proizvodstvennomu kontroliu v mashinostroenii. Izd.2., perer. i dop. Moskva, Mashgiz, 1964. 748 p.
(MIRA 17:3)

SHALAYEVSKIY, O.V.

Existence of similitude tests for the Behrens-Fisher problem. Dokl. AN SSSR 154 no.4:795-797 F '64. (MIRA 17:3)

1. Leningradskoye otdeleniye Matematicheskogo instituta im. V.A. Steklova AN SSSR. Predstavleno akademikom V.I. Smirnovym.

KAGAN, A.M.; SHALAYEVSKIY, O.V.

Behrens - Fisher's problem concerning the existence of similar zones in an algebra of sufficient statistics. Dokl. AN SSSR 155 no.6:1250-1252 Ap '64. (MIRA 17:4)

1. Predstavleno akademikom A.N.Kolmogorovym.

LINNIK, Yu.V.; ROMANOVSKAYA, I.L.; SHALAYEVSKIY, O.V. (Leningrad)

Remark on the theory of the Fisher-Welch-Wald test. Teor.
veroiat.i ee prim. 10 no.4:727-730 \*65.

(MIRA 18:12)

1. Submitted June 4, 1965.

| RG: none   | the theory of the                     | ne Fisher <i>-We</i>         | lch-Wald tes              |                              |  | and the second of the second o |
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| OURCE: Teoriya v   |                                       | •                            |                           |                              | 727-730  |  |
| OPIC TAGS proba  | cility, mathemat                      | ics                          |                           |                              |  |  |
| BSTRACT: The pre   | sent article dea                      | ls with test                 | ing of the H              | 0 hypothesis                 | regarding  |  |
| quality of the medizes no and no. I reguments which is ent stronger results. | Previous papers l<br>filled by the pr | by the first<br>resent artic | two of the<br>le. Theorem | authors leit<br>s are derive | ns of sample, a gap in the day of | 110  |

ACC NR: AP7007072

SOURCE CODE: UR/0020/66/168/004/0743/0746

AUTHOR: Linnik, Yu. V. (Academician); Pliss, V. A.; Shalayevskiy, O. V. ORG: Leningrad Branch, Mathematics Institute im. V. A. Steklov, AN SSSR

(Leningradskoye otdeleniye Matematicheskogo instituta AN SSSR)

TITLE: Theory of Hotelling's test

SOURCE: AN SSSR. Doklady, v. 168, no. 4, 1966, 743-746

TOPIC TAGS: statistics, mathematics

SUB CODE: 12

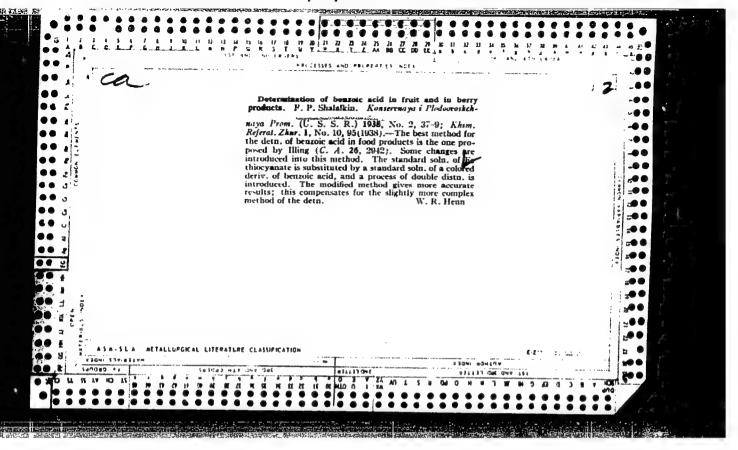
ABSTRACT: The problem examined is the verification of the statistical hypothesis of H:  $\xi = 0$  as compared with the (complex) alternative  $H_{\kappa}: N\xi^{T} \sum_{i=1}^{-1} = \delta$ 

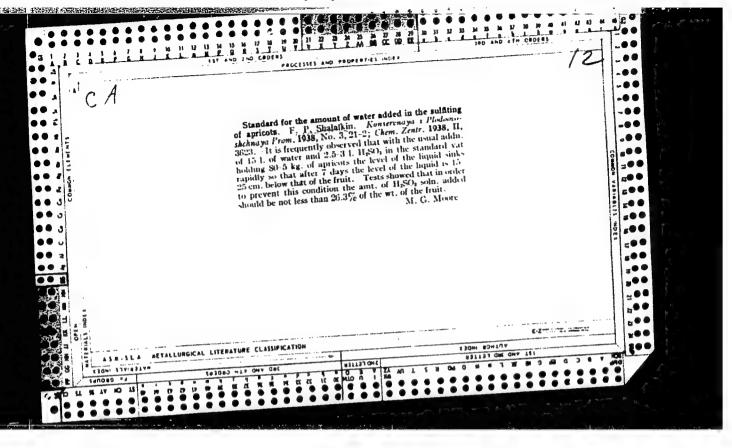
where  $\delta$  is an arbitrary, fixed positive integer. This problem, under certain conditions, is similar to the problem of detecting a signal in noise. In this case the Hotelling  $T^2$  test is usually applied, but so far the properties of the test are enigmatic, and no nontrivial case has been found to which the  $T^2$  test is applicable.

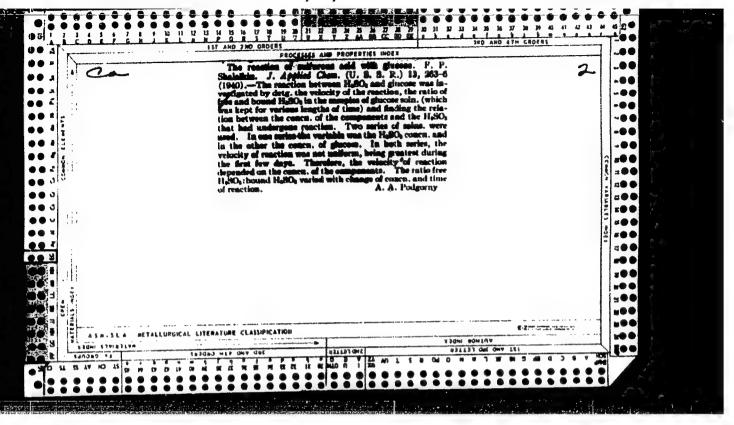
In this paper the investigations of Giri, Kiefer, and Stein (Ann. Math. Stat., Vol 34, 1524 (1963) are continued and the minimax nature of the T2 test is proved for the alternative  $H_S$  when p = 2, N = 4. JPRS: 38,417/

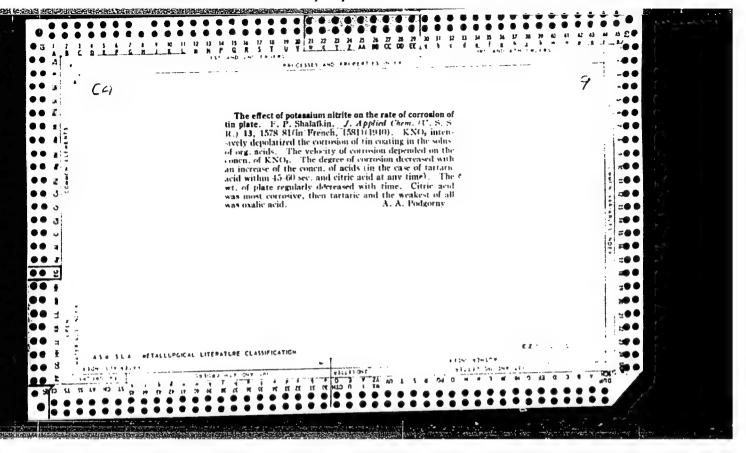
Card 1/1

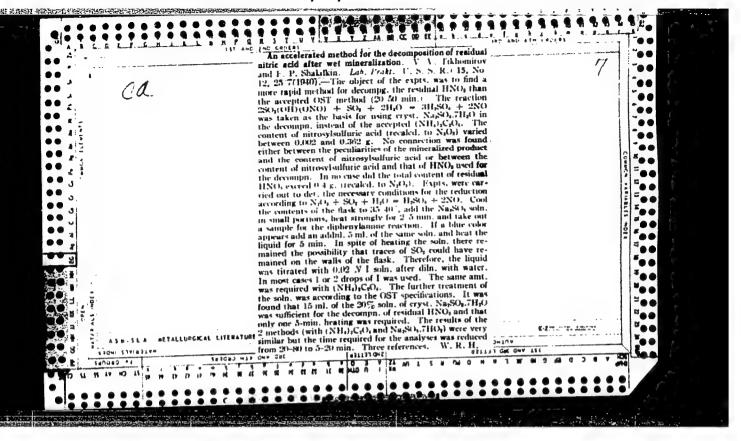
UDC: 519.251.8

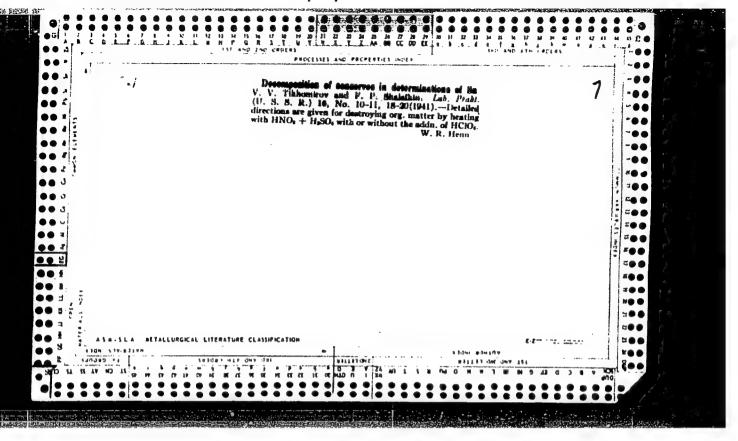












SHALAYKIN, F. P.

USSR/Chemistry - Lead Oxide

Nov 51

"Accelerated Process for the Preparation of Lead Oxide," F. P. Shalaykin

"Zhur Prik Khim" Vol XXIV, No 11, pp 1212, 1213

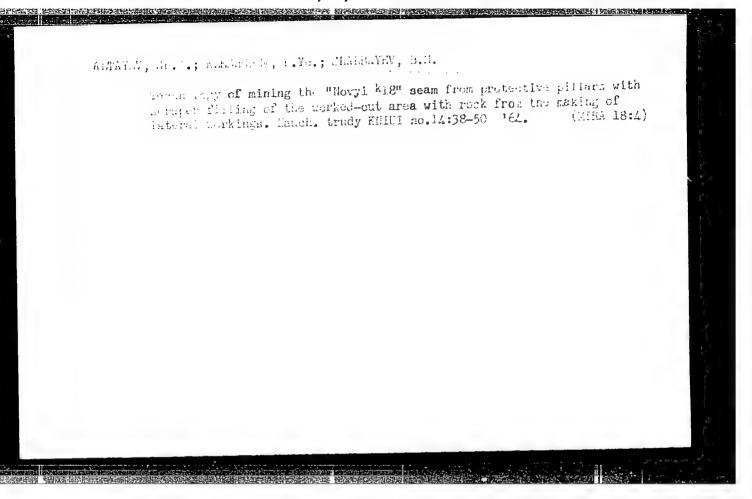
Discusses conditions for new, rapid means to prep PbO (widely used in glass, ceramics, paint production, and analytical practice) by heating pure metallic Pb with chemically pure KNO3 and NH4NO3. Technological processes involved in methods now used for production of PbO are complex and time-consuming.

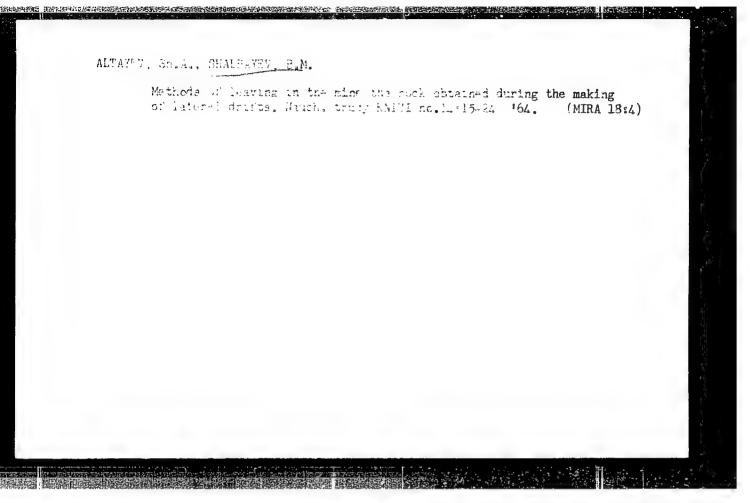
204T9

ENT(m)/ENP(j)/T/ETC(m) UR/0286/65/000/020/0065/0066 SOURCE CODE: AP5028487 Shalayskaya, G. V. Nifant'yev, E. AUTHORS: ORG: none TITLE: A method for obtaining phosphites and phosphonites of polyvinyl alcohol. Class 39, No. 175653 announced by Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet), SOURCE: Byulleten' izobreteniy i toyarnykh znakov, no. 20, 1965, 65-66 TOPIC TAGS: phosphorus compound, polyvinyl alcohol, esther, amide, phosphoric acid, phosphinic acid ABSTRACT: This Author Certificate presents a method for obtaining phosphites and phosphonites of polyvinyl alcohol. To obtain products with a high thermal stability, polyvinyl alcohol is treated with esters or amides of phosphoric or phosphinic acid while being heated to 100-180C. SUB CODE: 07/ SUBM DATE: 17Nov64 BIK 678.674 : 678.85 Card 1/1

- 1. SHALBAKINA, L. I.; VAKARENKO, S. S.: PANIN, A. I.: BEZRUK, V.S.
- 2. USSR (600)
- 4. Afforestation
- 7. Leaders in steppe forestry speak. Les i step! 4 no 10: 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.





SHAL'CHUTE, A. M., Cand or Med Sci -- (diss) "Differential diagnosis of primary lung cancer. (According to information obtained at hospitals of the city of Vil'nyus). "Vil'nyus, 1957, 18 pp (Vil'nyus State University im V. Kapsukas), (KL, 29-57, 94)

RATATSKAS, V.L.; SHAL'CHYUTE, I.P.

Use of sodium silicate as thickener in LNT-a chloroprene latex.

Kozh.-obuv. prom. 6 no.7:24-26 J1 '64. (MIRA 17:8)

SHALIDA, Miron Ivanovich; PEKELIS, V.D., red.; TISTROVA, O.Te., red.;
VORONIN, K.P., takhn.red.

[Homemade hydroelectric power station] Samodel'naia gidroelektrostantsiia, Pod obshchei red. V.D.Pekelisa. Moskva, Gos.energ.
izd-vo, 1958, 39 p. (MIRA 11:12)

(Hydroelectric power stations)

VEDYAPIN, M.G.; GOGA, I.V.; SMALDAISUW, A.P.

Wider use of winches for roof caving. Ugol' 35 no.2:19-23
F '60. (MTRA 13:5)

1. Kiselevskiy mashinostroitel'nyy zavod Kemerovskogo
sovnarkhoza.

(Winches) (Mining engineering)

L 11711-66 EWT(m)/EPF(n)-2/EWP(t)/EWP(b) JD/WW/JG
ACC NR: AP6002340 (N) SOURCE CODE: UR/0198/65/001/012/0095/0100

AUTHOR: Shal'da, L. M. (Kiev)

56

ORG: Kiev Polytechnic Institute (Kiyevskiy politekhnicheskiy institut)

TITLE: On the effect of a fluid on the vibration of a plate

SOURCE: Prikladnaya mekhanika, v. 1, no. 12, 1965, 95-100

TOPIC TAGS: plate oscillation, plate vibration, plate stability, Cauchy problem, fluid mechanics, vibration, vibration damping

ABSTRACT: A study is made of the likelihood of the occurrence of undamped vibrations of a plate under the action of flow of an ideal incompressible fluid. Two cases are studied: the case of an incident stream with velocity  $V = V_0$  sin  $\sigma$  t.

The plate has the following characteristics: the width of the plate is 1 in the coordinate direction Ox and the plate is infinite in the direction Oy; the incident stream is a planar stream striking the plate at an angle  $\pi/2$ . The equation of small vibrations is given as

 $D\frac{\partial^4 w(x,t)}{\partial x^4} = \rho(x,t) - \varrho h \frac{\partial^2 w(x,t)}{\partial t^2},$ 

Card 1/3

L 14711-66

ACC NR: AP6002340

where w(x,t) is the deflection of the median surface of the plate; P is the density of the plate material; h is the thickness of the plate; D is the cylindrical stiffness; p(x,t) is the distributed loading intensity. Boundary conditions are given

 $\omega(0,t)=0;$   $\omega(l,t)=0;$   $\frac{\partial^2 \omega(0,t)}{\partial x^2}=0;$   $\frac{\partial^2 \omega(l,t)}{\partial x^2}=0.$ 

The stream flow potential in the constant velocity case is divided into two terms, one for the stream itself and the other for the potential from vibrational motion of the fluid caused by plate vibration. The second term satisfies the Laplace condition and the boundary condition

 $\frac{\partial \varphi^*}{\partial z} = \frac{\partial \omega(x,t)}{\partial t} - V_{o} ,$ 

where p\* is the second potential term mentioned above. The solution of this equation is the logarithmic form

 $\varphi^* = -\int_0^t \mu \ln|x - \xi| d\xi.$ 

The pressure function p(x,t) is found by application of a Cauchy integral; this integral is combined with the expression for small vibrations to yield the differential-integral form

Card 2/3

 $D\frac{\partial^4 w(x,t)}{\partial x^4} = \frac{\varrho'}{2\pi} \int_0^1 \frac{\partial^2 w(\xi,t)}{\partial t^2} \ln|x - \xi| d\xi - \varrho' V_0 \frac{\partial w(x,t)}{\partial t} - \varrho h \frac{\partial^2 w(x,t)}{\partial t^2}.$ 

L 14711-66

ACC NR: AP6002340

This form may be simplified and solved by the method of A. N. Krylov (O nekotorykh differentsial'nykh uravneniyakh matematicheskoy fiziki, M. - L. GFFI, 1950). In the case of sinusoidal variation of stream velocity, the equation of small vibrations is

$$\frac{k}{c_{\bullet}^{2}} \frac{\partial^{4} \omega(x,\tau)}{\partial x^{4}} + \frac{\varrho'}{\varrho} \frac{\dot{V}_{0}}{c_{\bullet}} \sin \tau \frac{\partial \omega(x,\tau)}{\partial \tau} + \varepsilon \frac{\partial^{2} \omega(x,\tau)}{\partial \tau^{2}} - \varepsilon \frac{\varrho'}{2\pi\varrho} \int_{0}^{1} \frac{\partial^{2} \omega(\xi,\tau)}{\partial \tau^{2}} \ln|x - \xi| d\xi =$$

$$= -\frac{\varrho' V_{0} \left[ (1-x) \ln|1-x| + x \ln|x| - 1 \right]}{2\pi\varrho c_{\bullet}} \cos \tau ,$$

where

$$c_{\bullet} = l\sigma; \ \tau = \sigma l; \ \varepsilon = \frac{h}{l}; \ k = \frac{D}{\varrho l^3}$$

An approximate solution is developed for this case. The author concludes: 1) vibrations of the plate will always be damped if the stream velocity is constant at a great distance from the plate; 2) under certain conditions of sinusoidal velocity the amplitude of plate vibrations can increase without limit. The author thanks Professor N. A. Kil'chevskiy for his valuable advice. Orig. art. has: 32 equations and 1 figure.

SUB CODE: 20, 13/ SUBM DATE: 19Dec64/ ORIG REF: 005/ OTH REF: 002

VEDYAPIN, M.G.; GOGA, L.V.; SHALDAISOV, A.P.

Industrial testing of the LMK-20 shunting winch. Ugol' 39 no.1: 50-51 Ja '64. (MIRA 17:3)

Kiselevskiy mashinostroitel'nyy zavod.

GANDZYUK, M.P. [Handziuk, M.P.]; STABNIKOV, V.M.; SHALDENKO, D.K.

Air agitation for the mixing of graded products. Khar.prom. no.1:53-54 Ja-Mr '62. (MIRA 15:8)

1. Kafedra protsessov i apparatury Kiyevskogo tekhnologicheskogo instituta pishchevoy promyshlennosti (for Gandzyuk, Stabnikov).

(Distillation)

VASIL'KOVA, L.P.; Prinimal uchastiye SHALDENKOV, I.P.

Biochemical purification of the industrial waste waters from the production of vinyl acetate and the polymers based on it. Trudy VNIIT no.12:290-305 '63. (MIRA 18:11)

KOLOSOV, I. I., SHALDENKOVA, S. F.

Plants- Metabolism

Role of germinal and nodal roots in providing plants with minerals and water. Dokl. An SSSR 85, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

L 11427-65 EWT(1)/EWT(m)/T/EED(t)-2/LdA(h) IJP(c)/ASD(a)-5/AFVIL/

AS(mp)-2/RAEM(a)

ACCESSION NR: AP4048400

s/0181/64/006/011/3272/3278

AUTHORS: Krivoglaz, M. A.; Shaldervan, P. I.

TITLE: Phonon correlation function and inelastic coherent scattering of neutrons by crystals containing shallow electronic impurity centers

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3272-3278

TOPIC TAGS: conduction electron, electron phonon interaction, neutron scattering, impurity scattering

ABSTRACT: This is an extension of earlier work by one of the workers (Krivoglaz, FTT v. 3, 2761, 1961), except that in addition to interactions with conduction electrons, the authors consider electron-phonon interactions accompanied by quantum transitions between disphonon interactions accompanied by quantum transitions between discrete electron levels, such as occur in crystals containing shallow electronic centers. The phonon correlation function, frequency

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ACCESSION NR: AP4048400

shift, and attenuation are determined. The calculation is carried out in a higher-order perturbation-theory approximation than is customary, with account taken of the finite lifetimes of the electronic states. This makes it possible to eliminate the divergences connected with the resonant character of the interaction. The influence of the interaction between phonons and local centers on the energy distribution of the scattered neutrons is investigated. The estimates made show that this interaction can lead to a noticeable change in the phonon attenuation and in the width and shape of the scattered-neutron energy distribution. Orig. art. has: 18 formulas.

ASSOCIATION: None

SUBMITTED: 21May64

SUB CODE: SS

NR REF SOV: 007

ENCL: 00

OTHER: 002

Card 2/2

EEC(b)-2/EWT(1)/T---IJP(o)/SSD/AFWL/ESD(t) \$/0185/64/009/012/1331/1344 L 21132-65 AP5001553 ACCESSION NR: AUTHOR: Kryvoglaz, M. O. (Krivoglaz, M. A.); Shaldervan, P. G. (Shaldervan, P. I. TITLE: Single-phonon Green's function, phonon correlation function, and inelastic coherent scattering of neutrons by crystals containing shallow electronic impurity SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 9, no. 12, 1964, 1331-1344 centers TOPIC TAGS: Green function, phonon correlation function, inelastic scattering, neutron scattering, rystal impurity center, electron level ABSTRACT: The authors show how the interaction between phonons and electrons localized in shallow impurity centers (with Bohr frequencies lower than the maximum oscillation frequency) influences the damping and the frequency shift of the interaction, brought about by the discreteness of the electron levels. The calculations were made by the method of temperature Green's functions, and to eliminate the divergences the chain of equations was uncoupled in a higher order of approximation than customary, thus taking explicit account of the width of the electron level. Formulas are derived for the Green's function with account of Card 1/2

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ACCESSION NR: AP5001553

single-phonon interaction only, as well as for the general case. These formulas are then used to determine the single-phonon correlation functions and the damping and shift of the phonon oscillations. It is shown that when the frequency of the absorbed or emitted phonon is close to the Bohr frequency of the electron center, the energy distribution of the scattered neutrons exhibits resonant peaks, with a Lorentz line shape when the phonon damping is lower than the electron damping. If the electron damping is higher, the distribution is not Lorentzian and a narrow peak or dip is produced. The damping due to the electron phonon interaction is estimated and is shown to be independent of the nature of the center, being governed only by the density of the localized electrons and the distribution function of the oscillation frequencies near the Bohr frequency. This damping can become appreciable at relatively low density concentrations ~10-3--10-5.

Orig. art. has: 51 formulas.

ASSOCIATION: Instytut metalofizyky AN URSR, Kiev (Institute of Metal Physics, AN UkrSSR).

SUBMITTED: 07May64

ENCL: 00

SUB CODE: SS, NP

NR REF SOV: 008

OTHER: 003

Card 2/2

s/0181/64/006/008/2526/2528

ACCESSION NR: AP4043386

AUTHORS: Belyayev, L. M.; Belikova, G. S.; Dobrzhanskiy, G. F.;

Nemesov, G. B.; Shaldin, Yu. V.

TITLE: Dielectric constant of crystals possessing the electro-

optical effect

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, 2526-2528

TOPIC TAGS: dielectric constant, dielectric loss, electrooptic device, phosphate, optical communication, ir communication

ABSTRACT: The authors measured the dielectric constant  $\epsilon$  and the loss angle tangent tano in the frequency range from  $10^2$  to  $40 \times 10^9$  cps of the crystal  $\mathrm{NH_4H_2PO_4}$  and  $\mathrm{KH_2PO_4}$  relative to the corresponding values for air. The dispersion properties of these constants are important because the electro-optical effect in crystals is used for broadband modulation of electromagnetic radiation at optical and infrared wavelengths. The test procedure and the formulas for the

Card 1/4

ACCESSION NR: AP4043386

determination of the quantities of interest are taken from the book by A. R. Hippel (Dielectrics and Waves, N.Y., 1954). The data lead to the conclusion that the bandwidth properties of modulators which use the electro-optical effect in these crystals is limited to the centimeter wavelength band by the increase in thermal effect, which lead to breakdown of the crystals. Similar tests made on cubic crystals (N<sub>4</sub>(CH<sub>2</sub>)<sub>6</sub> and CuCl) show N<sub>4</sub>(CH<sub>2</sub>)<sub>6</sub> to be preferable for these purposes because they have a smaller loss angle in the millimeter band, and because the phase velocity of the light wave is equal to the phase velocity of the microwave. Orig. art. has: 2 tables.

ASSOCIATION: Institut kristalografii AN SSSR, Moscow (Institute of Crystallography, AN SSSR)

SUBMITTED: 24Jan64

ENCL: 02

SUB CODE: OP, SS

NR REF SOV: 000

OTHER: 004

Card 2/4

ACCESSION NR. AP4043386

ENCLOSURE: 01

. Values of  $\epsilon$  and tand for uniaxial crystals

| Частота, гд   | NH <sub>4</sub> H <sub>2</sub> PO,   |  |  | KH,PO <sub>4</sub>   |  |   |
|---|--|--|--|--|--|---|
|   | e (I   | * 1  | 42.911   | e II   | 1  | tg å ji   |
|   | ОТИПСИТЕЛЬНЫЕ ВИВЧЕНИЯ   |  |  |  |  |   |
| 10 <sup>2</sup><br>10 <sup>3</sup><br>10 <sup>4</sup><br>10 <sup>5</sup><br>9.8 · 10 <sup>8</sup><br>9.4 · 10 <sup>9</sup><br>3.96 · 10 <sup>10</sup> | 16.0 ± 0.5<br>15.9 ± 0.5<br>15.5 ± 0.5<br>15.3 ± 0.5<br>15.0 ± 0.5<br>14.7 ± 0.5<br>14.0 ± 0.5 | 55.8 ± 1.5<br>57.0 ± 1.5<br>56.0 ± 1.5<br>55.8 ± 1.5<br>55.5 ± 1.5<br>55.3 ± 1.5<br>55.0 ± 1.5 | 0.1<br>0.065<br>0.018<br>0.005<br>0.005<br>0.041<br>0.08 | 21.8 ± 0.5<br>21.3 ± 0.5<br>20.8 ± 0.5<br>20.1 ± 0.5<br>20.0 ± 0.5<br>19.7 ± 0.5<br>19.6 ± 0.5 | 43.7 ± 1.5<br>43.3 ± 1.5<br>43.2 ± 1.5<br>43.0 ± 1.5<br>42.5 ± 1.5<br>42.3 ± 1.5<br>42.0 ± 1.5 | 0.06<br>0.008<br>0.002<br>0.0006<br>0.0005<br>0.0008<br>0.003 |

1 - Frequency, cps, 2 - relative values

Card 3/4

ACCESSION NR:AP4043386

ENCLOSURE: 02

Values of  $\epsilon$  and tand for cubic crystals

| Частотя, гц   | N'(CH')' ,   |   | H'(CH')*1   |   | C¤CI   |  |  |
|---|--|---|---|---|--|--|--|
|   |  | , tg ñ  | ı   | tg ñ  | 4  |  |  |
|   | § ОТНОСИТЕЛЬНЫЕ ЗИВЧЕНИЯ   |   |   |   |  |  |  |
| 10 <sup>2</sup><br>10 <sup>3</sup><br>10 <sup>4</sup><br>10 <sup>5</sup><br>9.8 · 10 <sup>8</sup><br>9.4 · 10 <sup>9</sup><br>3.96 · 10 <sup>10</sup> | $\begin{array}{c} 2.5 \pm 0.2 \\ 2.5 \pm 0.2 \\ 2.5 \pm 0.2 \\ 2.5 \pm 0.2 \\ 2.6 \pm 0.2 \\ 2.6 \pm 0.2 \\ 2.6 \pm 0.2 \\ 2.6 \pm 0.2 \\ \end{array}$ | 0.1<br>0.065<br>0.018<br>0.005<br>0.005<br>0.005<br>0.005 | 2.5 ± 0.2<br>2.5 ± 0.2<br>2.5 ± 0.2<br>2.5 ± 0.2<br>2.6 ± 0.2<br>2.6 ± 0.2<br>2.6 ± 0.2 | 0.1<br>0.04<br>0.011<br>0.001<br>0.0008<br>0.0008<br>0.0008 | 10.0 ± 0.5<br>9.8 ± 0.5<br>9.2 ± 0.5<br>8.8 ± 0.5<br>8.6 ± 0.5<br>8.4 ± 0.5<br>8.3 ± 0.5 |  |  |

Card 4/4

EWT(m)/EWP(t)/EWP(b) IJP(c)/ESD(Y)/SSD/AFWL/RAEM(a) L 16354-65 S/0181/64/006/012/3727/3728 ACCESSION NR: AP5000686 AUTHORS: Belyayev, L. M.; Dobrzhanskiy, G. F.; Pisarevskiy, Yu. V.; Cherny\*shev, K. S.; Shaldin, Yu. V. TITLE: Electro-optical properties of copper chloride and copper bromide crystals Fizika tverdogo tela, v. 6, no. 12, 1964, 3727-3728 SOURCE: TOPIC TAGS: electrooptical property, copper inorganic compound, refractive index The authors measured the total electro-optical effect of copper chloride and copper bromide crystals, obtained from a melt and annealed. The experimental setup is shown in Fig. 1 of the enclosure. The samples were oriented by x-ray diffraction and by etch figures, with final orientation based on the maximum of the The electrodes on the sample were sputtered in vacuum. effect.

L 16354-65

ACCESSION NR: AP5000686

values obtained for the product of the cube of the refractive index and the electro-optical coefficient were found to be, at 525 and 675 nm respectively, 29 and 34 for CuCl and 22 and 26 for CuBr. The low values obtained for this product are probably due to the presence of stresses in the crystal and to inaccurate orientation. "The authors thank N. V. Glika and O. K. Mel'nikov for help in the orientation of the samples." Orig. art. has: 1 figure, 2 formulas, and 1 table.

ASSOCIATION: Institut kristallografii AN SSSR, Moscow (Institute of Crystallography AN SSSR)

SUBMITTED: 10Ju164

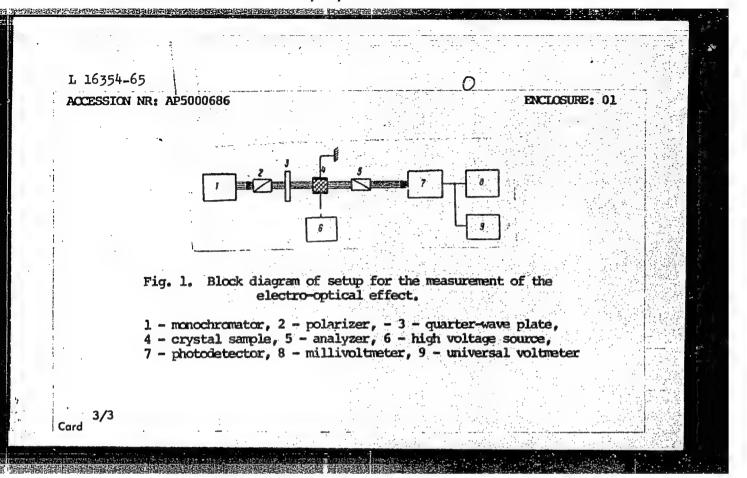
ENCL: 01

SUB CODE: OP, SS

NR REF SOV: 000

OTHER: 002

Card 2/3



EWT(1)/EWT(m)/EPF(c)/EWP(j)/T/EEC(b)-2/EWA(c) L 38620-65 TJP(c)/RPL GG/RM

AP5005326 ACCESSION NR:

s/0181/65/007/002/0661/0663

Pisarevskiy, Yu. V.; Tregubov, G. A.; Shaldin, Yu. V. AUTHOR:

TITLE: Electro-optical properties of crystals of NH4H2PO4, KH2PO4, and N4(CH2)6 in microwave fields.

SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 661-663

TOPIC TAGS: Electrooptical effect, electrooptical constant, microwave field

ABSTRACT: It is shown first that at microwave frequencies the secondary effect connected with the change in the refractive index under mechanical deformations of the free crystal by the electric field is small, so that the primary effect can be measured directly. A block diagram of the set-up is shown in Fig. 1 of the Enclosure. The electro-optical coefficients were measured in cylindrical samples of NH4H2PO4 and KH2PO4, the diameter of which was determined by the diameter of the internal conductor of the resonator. The optical axis of the crystal coincided with the geometrical axis of the cylinder along which the light beam was propagated. The values obtained for the electro-optical coefficient, for samples of different length along the optical axis, were 15.3 ± 4.5 and 25.5 ± 7.2 (x 10-8 G 25%)

Card 1/3

L 38620-65 AP5005326 ACCESSION NR: CCSE). Similar measurements for  $N_4(CH_2)_6$  in the form of parallelepipeds of different dimensions yielded values (5-12) x 10-8 CCSE. In the crystal sample with minimum stress the value of the coefficient was  $12 \times 10^{-8}$ . The results obtained for NHLH2POL and KH2POL agree within the limits of experimental accuracy with the results obtained for frequencies up to 1 Mc elsewhere. It is concluded that a change in the electro-optical constant can be expected above 10 Gc. In the case of N4(CH2)6 it is expected that the electro-optical coefficient will remain constant up to 300 Gc. "The authors are deeply grateful to L. M. Belyayev and V. V. Nabatov for help with the work and G. S. Belikova for supplying the crystals." art. has: 2 figures. ASSOCIATION: Institut kristallografii AN SSR, Moscow (Institute of Crystallography, Ali SSSR) ss ,OP SUB CODE: ENCL 24Jun64 SUBMITTED: OTHER: 005 NR REF SOVE

EWT(1)/EEC(k)=2/EWA(h)

ACC NR: AP5026761

SOURCE CODE: UR/0286/65/000/017/0040/0040

**AUTHOR:** 

Shaldin, Yu. V.

ORG: none

TITLE: A frequency drift meter for optical radiation. Class 21, No. 174268

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 40

TOPIC TAGS: A optic measurement, frequency meter

ABSTRACT: This Author's Certificate introduces a frequency drift meter for optical radiation. The accuracy is improved and the measurement range is expanded by using a Faraday cell to compensate for rotation of the polarization plane of the radiation being studied in an optically active medium.

SUB CODE: OP.EC/

SUBM DATE: 08Jul63/

APPROVED FOR RELEASE: 08/23/2000

ORIG REF: 000/

OTH REF: 000

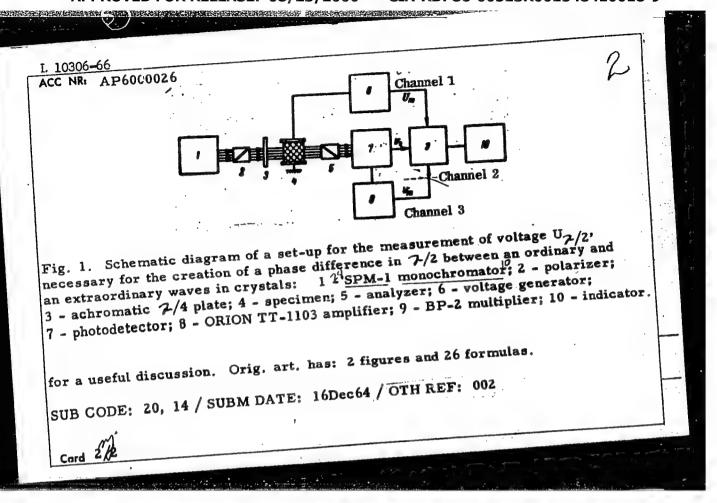
UDC: 621.317.361 : 621.375.8

1/1

Card

CIA-RDP86-00513R001548410018-9"

L 10306-66 EWT(1)/EEC(k)-2 ACC NR: AP6000026 SOURCE CODE: UR/0368/65/003/005/0463/0467 AUTHOR: Shaldin, Yu. V.; Pisarevskiy, Yu. V.; Mel'nikov, Yu. S. ORG: None TITLE: Measurement of the electro-optic effect in crystals 1m SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 5, 1965, 463-467 TOPIC TAGS: | electrooptic effect, crystal optic property, measuring ABSTRACT: The best method available for the measurement of the electro-optic effect in crystals is the method employing a 2/4 plate described elsewhere (O'B. R. Carpenter, JOSA, 40, 4, 225, 1950.). The problem of measuring the electro-optic coefficients may be simplified by the measurement of the voltage U7/2 which is required to establish a phase difference in 7-/2, followed by a calculation of the electro-optic coefficients. The authors present a description of a set-up for the semiautomatic measurement of U/12, together with a schematic diagram (Fig. 1). The method described makes it possible to shift from manual to automatic control. In conclusion authors express their deep gratitude to L. M. Belyayev 44 Card 1/2



Card 1/2

EWA(k)/FBD/EWT(1)/EWP(e)/EWT(m)/EPF(c)/EEC(k)-2/EWP(i)/T/EWP(t)/TWP(k) L 1774-66 IJP(c) WG/JD/JW/JG/WH EWP(b)/EWA(h)/EWA(m)-2UR/0070/65/010/005/0767/0769e ACCESSION NR: AP5024570 548.0:535.378 ui) Belyayev, L. M.; Nabatov, V. V.; Pisarevskiy, Yu. v/: Shaldin, AUTHOR: TITLE: Laser-induced triboluminescence in LiF crystals SOURCE: Kristallografiya, v. 10, no. 5, 1965, 767-769, and bottom half of insert facing p. 743 TOPIC TAGS: triboluminescence, laser beam, lithium fluoride, ruby laser ABSTRACT: The disintegration of solid materials by intense light beams is reported. To demonstrate this, a ruby laser beam ( $\lambda = 6943$  Å), focused by a lens with f = 40 mm on the center of an LiF crystal (average size 12.5 x 8.5 x 7.0 mm) with known triboluminescence properties, was used. The laser-induced triboluminescence was observed in LiF as one (filtered) line ( $\lambda = 3470 \text{ Å}$ ) by means of an FEU-42 photomultiplier. The laser- and tribo-pulses were registered on a DESO-1 oscillograph. A laser beam with a maximum density of 1.5 Mw/cm² concentrated on the crystal center caused a luminescence without disintegration, which was attributed to the heating of material at the lens focus. Crystal disintegration and the attendant triboluminescence were observed either after repeated bombardments by

L 1774-66

ACCESSION NR: AP5024570

laser beams with a maximum density of 1.5 Mw/cm², or at higher densities. Although no surface cracks were observed at beam densities below 1.5 Mw/cm², their appearance at the subsurface in the form of "rosettes" was evidenced. The experiments showed that the intensity of triboluminescence was approximately two orders of magnitude greater than the luminescence due to heating at  $\lambda = 3470$  Å. It was concluded that the occurrence of triboluminescence generated during the formation concluded that the occurrence of ambient pressure and is determined solely by of internal cracks is independent of ambient pressure and is determined solely by the processes in the crystal and at its new surfaces. Further studies will be made to determine whether triboluminescence is due to the luminescence of excited atoms or discharge luminescence stimulated by the electron or to ion emission from lyk]

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography, AN

SSSR) 44,55

SUBMITTED: 24Feb65

ENGL: 00

SUB CODE: EC, SS

3

NO REF SOV: 003

OTHER: 001

ATD PRESS:

Card 2/2

L 56480-65 EEO-2/EWT(d)/EEC-4/EEC(b)-2/EED-2 Pm-4/Pac-4
ACCESSION NR: AP5015818 UR/0109/65/010/006/1146/1146
621.378.1:621.376
AUTHOR: Yerkovich, S. P.; Pisarevskiy, Yu. V.; Ageshin, F. S.;
Tregubov, G. A.; Shaldin, Yu. V.

TITLE: Optical shf modulator

SOURCE: Radiotekhnika i elektronika, v. 10, no. 6, 1965, 1146

TOPIC TAGS: optical modulator

ABSTRACT: An experiment with modulation of light at 980 Mc is very briefly reported. The Pokels effect in single crystals of ammonium dihydrophosphate (ADP) and potassium dihydrophosphate (KDP) was used (B. H. Billings, J. Opt. Soc. Am., 1949, 39, 797). The modulation factor with the ADP crystal was 7.5% (output power, 2.5 w) without a constant-field bias. This was equivalent to 52% modulation with a quarter-wave plate and monochromatic light. The modulator bandwidth was 4 Mc. "The authors wish to thank G. F. Dobrzhanskiy for lending the DP crystals." Orig. art. has: 1 figure.

Card 1/2 1

| ACCESSION I  | VR: AP5015818 |   | stitut svyazi (Mosco               | OBCOW |  |  |  |
|--|---------------|---|------------------------------------|-------|--|--|--|
| ASSOCIATION  | N: Moskovskiy | elektrotekhnichesky<br>tute for Telecommunicati | institut svyazi (Moscow<br>itions) |       |  |  |  |
| And the second s |               | ENCL: 00  | SUB CODE: E                        | c, 55 |  |  |  |
| SUBMITTED  |               | OTHER: 001                                      | ATD PRESS: 40                      | 35    |  |  |  |
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| 2/2<br>Card 2/2  |               |   |                                    |       |  |  |  |

SHALPEN, Yu.S., PROAMEYSAII. Yn.V., MERINIESV, Yu.S.

Measurement of the electro-optical effect in crystals. Zour, prikl. spaker, 3 no.5.463 467 N '65. (MERA 16.11)

ACC NR: AP5027028

SOURCE CODE: UR/0120/65/000/005/0156/0158

AUTHOR: Pisarevskiy, Yu. V.; Tregubov, G. A.; Shaldin, Yu. V.

B

ORG: Institute of Crystallography of AN SSSR, Moscow (Institut kristallografii, AN SSSR)

TITLE: Measurement of electrooptical indices in the superhigh-frequency fields

SOURCE: Pribory i tekhnika eksperiment., no. 5, 1965, 156-158

TOPIC TAGS: electrooptic effect, light refraction, SiiF

ABSTRACT: The method of measurement of the electrooptical index applied to various crystals is based at establishing the difference in behavior between ordinary and extraordinary waves. This difference is express by the formula  $\gamma = (2\pi a l \lambda) c n_0^3 r_L^2 E_1^2$ , where no denotes index of refraction,  $\lambda$  wavelength,  $\sigma$  by the formula  $\gamma = (2\pi a l \lambda) c n_0^3 r_L^2 E_1^2$ , where no denotes index of refraction,  $\lambda$  wavelength,  $\sigma$  by the formula  $\gamma = (2\pi a l \lambda) c n_0^3 r_L^2 E_1^2$ , where no denotes index of refraction,  $\lambda$  wavelength,  $\sigma$  by the formula  $\gamma = (2\pi a l \lambda) c n_0^3 r_L^2 E_1^2$ , where no denotes index of refraction of the position of field vector and the direction of light with respect to crystal axes. At arrangement used for measuring the phase shift is shown in Fig. 1 (see Card 2/2). In order to improve the sensitivity, the audiofrequency of EdO cycles was used for the modulation of the superhigh frequency. The effect of method at the intensity of light is expressed in the form of Bessel functions. The audio-component of photocurrent is also determined and graphically

Card 1/2

UDC: 537.7-96:537.228.3

ZEZIN, A.B.; BAKEYEV, N.F.; MERZLOV, V.P.; SHALDINA, L.A.; KOZLOV, P.V.

Aggregation of molecules of poly-L-glutamic acid in aqueous solutions at low pH values. Biofizika 10 no.2:207-211 '65. (MIRA 18:7)

1. Khimicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

SHAIDUDA, D. Ye.

"Use of blood transfusions during a serious form of nuttaliosis in horses," In symposium:
Nauch.-prakt rabbty vayer-vet. slughby, Moscow, 1948, p. 73-75

SO: U-3850, 16 June 53, (Letopie 'Zhurnal 'nykh Statey, No. 5, 1949).

MAGDA, I.I., professor, doktor; SHALDUGA, N.Ye., assistent; VOSKOBOYNIKOV, V.M., aspirant.

New method of rumenotomy. Shor.trud.Khar'.vet.inst. 21:425-431 '52. (MLRA 9:12)

1. Kafedra operativnov khirurgii Kharkovskogo veterinarnogo instituta.

(Veterinary surgery) (Stomach-Surgery)

SHALDUGA, N.Ye., assistent.

Caponizing cocks. Sbor.trud.Khar'.vet.inst. 21:453-465 '52.
(MLRA 9:12)

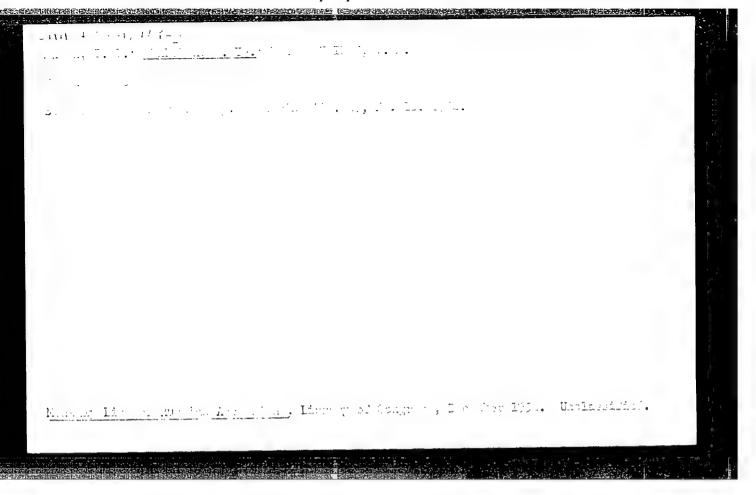
1. Kafedra operativnoy khirurgii Khar'kovskogo veterinarnogo instituta.

(Capons and caponizing)

KALASHNIK, I.A., dotsent; SHALDUGA, M.Yo.

Surgical treatment of umbilical hernia in swine and dogs, Sbor.
trud. Khar'. vet. inst. 21:471-474 '52. (MLRA 9:12)

1. Kafedra operativnoy khirurgii Khar'kovskogo veterinarnogo
instituta.
(Hernia) (Veterinary surgery)



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Later-kowskin veterinary institut.

(anenthesia in veterinary outpery)

Later-to-kowskin (alcohol--Phenaut tic use)

PUSTOVAR, Ya.P., dots.; SHALDUGA, N.Ye., dots.; KORZH, P.M., vetvrach.

Cancer of the eye region in cows. Veterinariia 35 no.4:57-62 Ap '58.

(MIRA 11:3)

1. Khar'kovskiy veterinarnyy institut.

(Rye--Cancer) (Cows--Diseases and pests)

SHALDUGA, I. J., MAGDA, T. E. and LoZGOVCY, A. A.

"On the Use of the Surgical Method in Experimental Helminthology."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Fublishing House of Academy of Sciences, USSA, Moscow-Leningrad, 1959.

Helminthological Laboratory of the USSR Academy of Sciences, Moscow

"The treatment of cow pathology of ovaries."

Veterinariya Vol. 37, No. 3, 1960, p. 46

Thankou-Vet Inst.

SHALDUCA, N. E. Assistant Professor, Khar'kov Veterinary Institute.

"An addition to the question of restoring ovary regeneration in cows, rabbits (Leporidae) and hens," Veterinariya, Vol. 37, No. 12, p. 49, 1960.

SHALDUGA, N.Ye., dotsent

Reparative regeneration of ovaries in cows, female rabbits, and chickens. Veterinariia 37 no.12:49-51 D '60. (MIRA 15:4)

1. Khar'kovskiy veterinarnyy institut.
(Ovariotomy) (Veterinary surgery) (Regeneration (Biology))

MAGDA, I.I.; MOZGOVOY, A.A.; SHALDUGA, N.Ye.

Using a surgical method in experimental helminthology. Trudy Gel'm.lab. 11:162-165 '61. (MIRA 15:12) (Helminthological research)

MOZGOVOY, A.A.; MAGDA, I.I.; SHALDUGA, N.Ye,

Epizootiology of ascariasis in poultry. Trudy Gel'm.lab.
11:166-168 '61. (MIRA 15:12)
(Ascarids and ascariasis) (Parasites-Poultry)

MOZCOVOY, A.A.; MAGDA, I.I.; SHALDUGA, N.Ye.; ALEKSANDRYUK, S.P.

Experimental investigation of abnormal localization of ascarids.
Trudy Gel'm.lab. 11:169-179 '61. (MIRA 15:12)

(Ascarids and ascariasis)

SHALDUCA, N.Ye., dotsent

Treatment of cows with diseased ovaries. Veterinaria 37 no.3:

6-1 Mr '60. (MIRA 16:6)

1. Khar'kovskiy veterinarnyy institut.
(Ovaries—Diseases) (Veterinary medicine)

SHALDUN, T.N.

Metamorphic characteristics of lead-zinc ores with a high pyrite content in the Tekeli deposit. Geol. rud. mestorozh. no.5:39-56 S-0 '59. (MIRA 13:2)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.

(Dzungarian Ala-Tau--Ore deposits)

USSR/Zoological Parasitology - Parasitic Worms. Helminthes.

G.

Abs Jour

: Ref Zhur - Biol., No 11, 1958, 48212

Author

Shaldybin, L.S.

Inst

: Gorki State Pediatrie Institute.

Title

Materials for the Epizootology of Some Helminthes in a

Moose.

Orig Pub

: Uch. zap. Gor'kovsk. gos. ped. in-ta, 1957, 19, 57-63.

Abstract

By the method of coprological analysis, according to Vitsel'-Orlov, and by animal dissections, in the territory of the Mordovsk game reservation, an intense infestation by Elaphostrongylus panticola Lubirov, 1946, was found in the spotted deer (up to 83%), in the moose (up to 82%) and in the Siberia stag (up to 87%). Mullerlike larvae of the parasite were detected in the large intestine, in the washing of the heart and, in the imago stage, in the brain

Card 1./2

- 18 -

USSR/Zoological Parasitology - Parasitic Worms. Helminthes.

G.

Abs Jour : Ref Zhur - Biol., No 11, 1958, 48208

illustrations are provided). The majority of detected helminthes infest also the ruminants or the fur animals.

Card 2/2

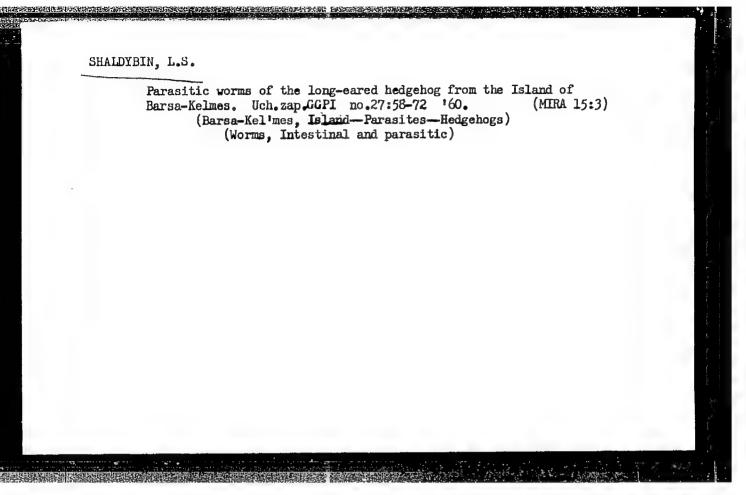
- 17 -

SHALDYBIN, L.S.

Barsa-Kel'mes Preserve. Uch.zap.GGPI 20:157-156 '56.

(MIRA 13:6)

(Barsa-Kel'mes Preserve)



Cestodes of the gemus Cyrocoelja. Uch.zap.CGPI no.27:73-80
160. (MIRA 15:3)

(Barsa-Kel'mes, Island-Cestoda)

SHALDYBIN, L.S.; CHANAYEVA, V.S.

Material on the helminths of rodents in the Black Sea Preserve.

Uch.zap.GGPI no.27:81.96 '60. (MIRA 15:3)

(Black Sea Preserve.—Parasites—Rodentia)

(Worms, Intestinal and parasitic)

SHAIDYBIN, L.S.

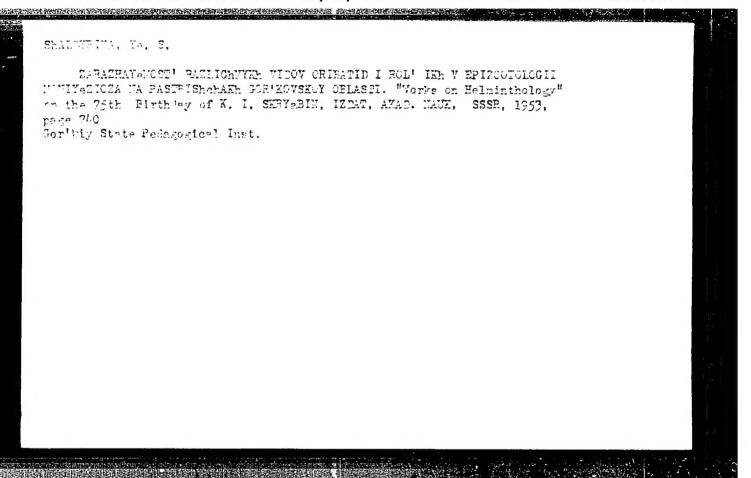
Helminthologic characteristics of muskrat. Uch.zap.GGPI no.27:97-101
'60. (MIRA 15:3)

(Parasites—Muskrats) (Taenia)

SHALDYBIN, L.S.

Helminths of mammals of the Mordvinian State Preserve. Uch. zap. GGPI 48:52-81 \*64.

Analysis of the composition of parasitic worms of the brown rat (Rattus norvegicus) living in the Soviet Union. Ibid.:82-90 (MIRA 18:4)



SHALDYBINA, Ye.S.

Vertical migrations of oribatid mites [with English summary in insert]. Zool.zhur. 35 no.4:535-545 Ap '56. (MLRA 9:8)

1. Kafedra zoologii Gor'kovskogo pedagogicheskogo instituta.
(Nites)

USSR

G

Aos Jour

: Ref Zhur - Biologiya, No 22, 1958, No 99602

Author

: Shaldybina, Ye.S.

Inst

: Cor'liy State Pedagogical Institute.

Title

: Effect of Innumention Upon the Population of Oribatei Mites

Orig Pub

: Uch.zap.Gor'kovsk.gos.ped.in-t,1957,19,101-105.

Abstract

: Excessive humidity has a negative effect upon the development of mites (M) and leads to their death which is of great importance in the spread of helminthic infestations on periodically innundated sectors. Investigations were carried out under field and laboratory conditions. For the field investigation, a sector was chosen which, periodically, in the course of the summer, was covered with water, and only in September, became dry. Maximal number of M in that sector was observed in the middle of May, following which their number continuously decreased and reached a minimum in September, after which a new

Card 1/2

מססת

Abs Jour

: Ref Zhur - Biologiya, No 22, 1958, No 99602

APPROVED FOR RECEASE: 08723 J2000 laboratory the experiments were carried out ch 2 species: Scheloring 186 - 00513R00 1548410018-9"

the dry sector and Platynothrus peltifer predominating in the humid sectors. The M perished under conditions of rapid drying but, when submitted to gradual change of the medium, they survived. Similar experiments were carried out with freezing. M immersed for 36 days in frozen water and then submitted to gradual heating gave a 60% viability. M not immersed in water, but floating, did not perish at at all. Various species of M react in a different manner to innundation. Pl. Peltifer perished within 30 days and only to the extent of 60%, and Sch.laevigatus perished completely on the 16th day. It was confirmed by the experiments that M can survive on pastures with periodical innundations and frosts .-- Ye. N. Bulanova-Zakhvatkina.

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